

# Chesapeake Chemist

Maryland Section  
American Chemical  
Society



~ Dr. Judith A. Harrison ~  
Professor of Chemistry  
US Naval Academy  
(<http://www.usna.edu/ChemDept/facultyInfo/jah/jah.htm>)

*“Unraveling the mechanisms of Friction using Computer Simulations”*

Wednesday, October 21, 2009 – 6pm – Berkshire Marriott Conference Hotel, Towson, MD

## Message from the Chair

Dear Fellow Members,

It is time for the 2009 Election of the Maryland Section Officers who will begin their terms in January 2010. As we did last, an electronic voting system will be used. **Starting mid-October**, you will receive an e-mail with a website link and a password. Please take a few minutes to go on-line, examine the ballot, and vote. The Maryland Section Officers influence things like: what meetings are planned, how section money is spent, and representation of the Maryland Section and Maryland member interests at National meetings.

Member access to the ballot is important to us!! For those, who would still like to vote by mail, please contact Stephanie Watson: stephanie.watson@nist.gov, 301-975-6448.

There has also been a change in Section Officers: Make Zapf has resigned as Vice Chair and so the position is vacant; write-in candidates are welcome. There are also up to 5 positions for Members at Large with only 4 nominees; again, write-in candidates are welcome.

Please cast your vote using the information by **November 6, 2009**.

Sincerely,  
Walter A. Roy, Jr.  
2009 Chair, Maryland Section

## October Meeting - Braude Award

Wednesday, October 21, 2009 - 6-9:30pm - Burkshire Marriott Hotel & Conference Center, Towson, MD

6:00-6:45pm	Registration / Networking & appetizers
6:45-7:45pm	Dinner
7:45-8pm	Braude Award
8-9pm	Braude Lecture: <b>Dr. Judith A. Harrison</b> Chemistry Department US Naval Academy <i>"Unraveling the mechanisms of Friction using Computer Simulations"</i> ~Question and Answer (10 minutes)~

Price: Members - \$25; Retired Members and Guests - \$20; Students - \$10

Contact: For questions, contact Shirish Shah at 410-323-0803 (H) or by email at [dr.shah@juno.com](mailto:dr.shah@juno.com)

Where: Burkshire Marriott Hotel & Conference Center, Baltimore, MD

### Directions to Burkshire Marriott Hotel & Conference Center:

10 W. Burke Avenue  
Towson, Maryland 21204

- From the Baltimore beltway, I-695, follow to the York Road exit (south)
- You will proceed through the traffic circle to continue on York Road until Burke Avenue - turn right
- The Berkshire is immediately on the right side as you turn onto Burke Ave. (18-story building). Turn right into the Berkshire's parking entrance. Turn the corner and make an immediate right into the P2 parking garage.
- (You may have to press the intercom button for admittance to the elevators.)
- Proceed to the front desk to get a parking pass required for your car.
- Look for signs posted in the lobby and elevators to locate the dining room.

Directions & map are also available on the MD ACS website (<http://mdchem.org/meetings/burkshire.html>).

~ Speaker Information & Abstract on Page 4 ~

## ACS Maryland Section - Officers and Committee Chairs

### Section Officers:

*Chair 2009* - Walter Roy, McCormick & Company, Inc, (410) 771-7886; [walter\\_roy@mccormick.com](mailto:walter_roy@mccormick.com)  
*Vice-chair (chair 2010)* - Alvin Kennedy, Morgan State University, (443) 885-3115; [alvin.kennedy@morgan.edu](mailto:alvin.kennedy@morgan.edu)  
*Chair-elect (chair 2011)* - Mike Zapf, McCormick & Company, Inc, (410) 771-7471 ; [Mike\\_Zapf@mccormick.com](mailto:Mike_Zapf@mccormick.com)

*Secretary* - Sara Narayan, Stevenson University - (443) 334-2326; [snarayan@stevenson.edu](mailto:snarayan@stevenson.edu)

*Treasurer* - Liina Ladon, Towson University, Chemistry Department, 8000 York Road, Smith Hall Rm. 538, Towson, MD 21252, (410) 704-3054, [lladon@towson.edu](mailto:lladon@towson.edu)

### Councilors:

Merle I. Eiss  
McCormick & Co, Inc  
[meiss32@aol.com](mailto:meiss32@aol.com)

Stephanie J. Watson  
NIST  
[stephanie.watson@nist.gov](mailto:stephanie.watson@nist.gov)

David Roswell  
Loyola College  
[droswell@lovol.edu](mailto:droswell@lovol.edu)

Charles Rowell  
retired  
[cfrowell35@verizon.net](mailto:cfrowell35@verizon.net)

**Alternate Councilors:** Shekar Munavalli (ECBC), Shirish Shah (Towson), Paul Smith (UMBC), Joseph Topping (Towson)

**Members at Large:** Lance Baird (JHU-APL), Maurice Iwunze (Morgan), Angela Wells Winstead (Morgan), Takashi Tsukamoto (JHU)

### Committee Chairs:

*Student Awards (April)* - George Farrant - (410) 455-4120; [gfarrant@yahoo.com](mailto:gfarrant@yahoo.com)

*MD ACS Student Grants - Travel & Student Affiliate Awards (February/March)* - Paul Smith, [pjsmith@umbc.com](mailto:pjsmith@umbc.com)  
or Louise Hellwig, [Louise.Hellwig@morgan.edu](mailto:Louise.Hellwig@morgan.edu)

*Remsen Award (May/June)* - Lev Ryzhkov; [lryzhkov@towson.edu](mailto:lryzhkov@towson.edu)

*Braude Award (October)* - Charles Rowell

*Maryland Chemist Award (December)* - Angela Sherman - (410) 532-5713; [ASherman@ndm.edu](mailto:ASherman@ndm.edu)

*Maryland Service Award* - Shree Iyengar - (410) 777-2266; [ssiyengar@aacc.edu](mailto:ssiyengar@aacc.edu)

### Programs:

*Archives* - Ernie Silversmith - (443) 885-3214  
*Career Planning* - Linh Cheong - (410) 762-1159  
*Earth Day* - Paul Smith, Lance Baird  
([Lance.Baird@jhuapl.edu](mailto:Lance.Baird@jhuapl.edu))  
*Environmental Issues* - Shirish Shah - (410) 704-2720  
[sshah@towson.edu](mailto:sshah@towson.edu) & Lance Baird  
*Finance Committee* - Jan Kolakowski - (410) 436-2755  
[jan.kolakowski@us.army.mil](mailto:jan.kolakowski@us.army.mil)  
*Government Relations* - Shirish Shah & Robert von Tersch - [robert.l.vontersch@us.army.mil](mailto:robert.l.vontersch@us.army.mil)  
*Long Range Planning* - Shekar Munavalli  
*MARM* - Shirish Shah & Paul Smith  
*Membership* - Merle Eiss  
*Minority Affairs* - Alfred Amah - (410) 602-7164;  
[aamah@coppin.edu](mailto:aamah@coppin.edu)  
*Public Relations* - Shirish Shah & Walter Roy,  
[Walter\\_Roy@mccormick.com](mailto:Walter_Roy@mccormick.com)  
*Retired Chemists* - Alvin Bober, [abober@verizon.net](mailto:abober@verizon.net),  
410-581-5321  
*Student Affiliate Liaison* - Louise Hellwig  
*Women Chemists/Younger Chemists* - Sara Narayan -  
443-334-2326 / Amanda (Miller) Idstein -  
[aredmiller@cs.com](mailto:aredmiller@cs.com)

### Educational Programs:

*Chemistry Olympiad/Chem-a-Thon* -  
Shirish Shah & Mike Zapf,  
[Mike\\_Zapf@mccormick.com](mailto:Mike_Zapf@mccormick.com)  
*Continuing Education/High School Education* -  
Shirish Shah / Ellen Pisciotta  
*Kids & Chemistry/Chemistry-in-the-Library* -  
Sue Procell, 410-436-4604,  
[suzanne.procell@us.army.mil](mailto:suzanne.procell@us.army.mil) / Sandy Young  
*National Chemistry Week (NCW)* -  
Shirish Shah & Sandy Young

**Maryland Section on the Web:** <http://mdchem.org>

*Webmaster* - Sandy Young ([mdchem@mdchem.org](mailto:mdchem@mdchem.org))

### Chesapeake Chemist Editor:

([mdchem@mdchem.org](mailto:mdchem@mdchem.org))

**Have a job to post?, a good news chemistry story? -  
contact the Maryland Executive Committee through  
e-mail via: ([mdchem@mdchem.org](mailto:mdchem@mdchem.org)).**

## **Abstract:** “Unraveling the mechanisms of Friction using Computer Simulations”

Machines wear out and lubricants break down. These are two examples of the detrimental results of friction. If the processes governing machine wear and lubricant breakdown were understood at the most fundamental (atomic) level, lubricants and machine parts might be designed for specific purposes with pre-determined lifetimes. This would save energy and conserve natural resources. This talk will outline some of the computer simulations carried out in my group aimed at elucidating the atomic-scale mechanisms of friction and wear of solid lubricants.

### **About the speaker**



**Dr. Judith A. Harrison**  
Professor of Chemistry  
US Naval Academy  
Chemistry Department  
U. S. Naval Academy  
572 Holloway Rd.  
Annapolis, MD 21402-5026  
E-Mail: [jah@usna.edu](mailto:jah@usna.edu)  
(<http://www.usna.edu/ChemDept/facultyInfo/jah/jah.htm>)

### **Speaker Bio:**

#### **EDUCATION**

- June 1992 *Thinking Machines Corporation, Boston, MA*- CM FORTRAN class
- September 1985- June 1989 *University of New Hampshire, Durham, NH* - Ph. D. in Physical Chemistry, September 1989 - Dissertation: *The Effect of Reagent Rotation on Gas Phase Reactivity* -Specialization: Theoretical Chemistry
- September 1980- May 1984 *Saint Anselm College, Manchester, NH* - B.A. Chemistry, May 1984

#### **PROFESSIONAL RECORD**

- August 2003 - *United States Naval Academy, Annapolis, MD* - Professor, Department of Chemistry
- August 1997 - August 2003 *United States Naval Academy, Annapolis, MD* - Associate Professor, Department of Chemistry
- August 1993 - August 1997 *United States Naval Academy, Annapolis, MD* - Assistant Professor, Department of Chemistry
- October 2008 - *Chair of the NSTD (American Vacuum Society)*
- October 2007 - October 2008 *Vice Chair of the NSTD (AVS)*
- October 2005 - *NSTD Executive Committee Member (AVS)*
- April 2007 - *Research Committee for Tribology* - Member
- January 2007 - January 2008 *Advances in Tribology* - Associate Editor / Editorial Board Member
- June 2004 Instructor at the NSF Workshop on “Multiscale Modeling and Simulation of NanoMechanics and Materials”, held at Northwestern University
- September 1996 - August 1999 *Tribology Transactions* - Associate Editor
- August 1995 - September 1997 *Research Committee for Tribology* - Member
- October 1990 - July 1993 *Naval Research Laboratory, Washington, DC* - Office of Naval Technology Postdoctoral Associate
- July 1989 - August 1989 *Duke University, Durham, NC* - Postdoctoral Associate, Department of Chemistry

## MD ACS Section - Ballot for 2010 Section Officers

**CHAIR:** ALVIN KENNEDY Morgan State University  
443-885-3794  
akennedy@morgan.edu

### FOR THE FOLLOWING POSITIONS, PLEASE VOTE FOR ONE CANDIDATE

**VICE-CHAIR:** VACANT

**Chair-Elect:** Takashi Tsukamoto Johns Hopkins Brain Science Institute  
443-629-7984  
ttsukamoto@jhmi.edu

Sara Narayan Stevenson University  
443-334-2326  
snarayan@stevenson.edu

**Secretary:** Lance Baird\* Johns Hopkins University Applied Physics Laboratory  
443-778-7522  
Lance.Baird@jhuapl.edu  
\*Unopposed

**Treasurer:** Holly Cymet Morgan State University  
443-885-3882  
Holly.Cymet@MORGAN.EDU

Liina Ladon Towson University  
410-704-3054  
lladon@towson.edu

### PLEASE VOTE FOR UP TO 5 CANDIDATES

**Members at Large:** Maurice Iwunze Morgan State University  
Angela Wells Winstead Morgan State University  
Suzanne Procell ECBC  
Rose Pesce-Rodriguez ARL



### Fall 2009 - Important Dates



October 18-24, 2009 National Chemistry Week! - Chemistry - It's Elemental!  
October 21, 2009 Section Meeting & Braude Award Dinner - Berkshire Marriott, Towson, MD  
November 11, 2009 John Quinn, Director - Environmental Issues, Constellation Energy - Location To-Be-Announced  
November 15, 2009 America Recycles Day (<http://nrc-recycle.org/americarecycles.aspx>)  
December 9, 2009 Maryland Chemist of the Year Award - Dr. Carole Bewley, NIH - and Reception - Berkshire Marriott, Towson, MD



### Spring 2010 - Important Dates



February 2010 Section Meeting - Details To-Be-Announced  
March 2010 Section Meeting - Details To-Be-Announced  
April 3, 2010 MD ACS Earth Day Community Event - Project Clean Stream - Herring Run Park (Argonne Drive & Harford Road), Baltimore, MD  
(Saturday)  
April 2010 Student Awards Meeting - Date/Location to be determined  
April 22, 2010 Earth Day  
October 2009

## Student Affiliate (SA) Corner

### University of Maryland - Baltimore County - Dr. Tara Carpenter

On September 23, the UMBC chapter of student members held their 2nd annual Saccharide Social. We made s'mores and ate a lot of sugary treats! We had about 80 people in attendance. We helped students get to know one another by pairing new students with current members and took advantage of ACS's Member Get A Member program. It was a huge success!



### Applications are Being Accepted for the 2010 Undergraduate Student Travel Awards

Students can apply to receive up to \$500 for travel and expenses to attend a National ACS Meeting or up to \$300 to attend a Regional ACS Meeting. Open to undergraduate student affiliates of the ACS who are enrolled full time in a college or university in the Maryland Section.

The application should include:

- The meeting you plan to attend along with location, dates
- An estimated budget (cost for travel, registration, lodging, and meals)
- A 250 word essay describing your motivation for attending the meeting (if you plan to present, include a brief description of the work to be presented)
- A letter of support from a faculty member in your department

Review of applications will begin January 15<sup>th</sup> but will continue through the year until all funds are utilized. Applications should be mailed to: Dr. Paul Smith, UMBC, Department of Chemistry and Biochemistry, 1000 Hilltop Circle, Baltimore, MD, 21250 or sent via e-mail: [pjsmith@umbc.com](mailto:pjsmith@umbc.com).

### [National Meeting Travel Grants Available for Student Affiliates](#)

Active Student Affiliates chapters with students presenting posters at the Spring 2009 national meeting can apply for a \$300 travel grant. Applications are due by January 15, 2010. Information is available on the [National ACS website](#).



## Outreach

### National Chemistry Week 2009 – Chemistry! It’s Elemental!

As has been celebrated for over 20-years, National ACS will celebrate National Chemistry Week across the nation during the week of October 18-24, 2009. Everyone has been inspired by someone scientifically in their lifetime... whether a teacher, colleague, or student. It’s a good time to consider who inspired you and pass along some of that inspiration to the next generation. National ACS published Celebrating Chemistry and it’s available on-line for downloading: [http://issuu.com/kate1dc/docs/ncw\\_2009\\_celebrating\\_chemistry](http://issuu.com/kate1dc/docs/ncw_2009_celebrating_chemistry).

Date:	Location:
Friday, October 16 <sup>th</sup> , 2009 – 10pm	Miller Library, Ellicott City, MD (Howard County)
Friday, October 16 <sup>th</sup> , 2009 – 2am	Savage Library, Laurel, MD (Howard County)
Saturday, October 17 <sup>th</sup> , 2009 – 2pm	East Columbia Library, Columbia, MD (Howard County)
Saturday, October 24 <sup>th</sup> , 2009 – 2pm	Rising Sun Library, Rising Sun, MD (Cecil County)
Saturday, October 24 <sup>th</sup> , 2009 – 2pm	Elkridge Library, Elkridge MD (Howard County)
Friday, November 6, 2009 – 11am	Glenwood Library, Cooksville, MD (Howard County)
Friday, November 6, 2009 – 2pm	Central Library, Columbia, MD (Howard County)
Sunday, November 8 <sup>th</sup> , 2009 – 1:30-3pm	Rawlings Conservatory (Baltimore City)
Tuesday, November 10 <sup>th</sup> , 2009 – 4:15pm	Waverly Library, Baltimore, MD (Baltimore City)

<b>October School Visits</b>	Baltimore County	<ul style="list-style-type: none"> <li>• Pleasant Plains Elementary, Baltimore, MD 21286</li> <li>• Johnnycake Elementary School, Baltimore, MD 21228</li> <li>• Colgate Elementary, Baltimore, MD 21224</li> </ul>
	Harford County	<ul style="list-style-type: none"> <li>• APG AA Youth Center, APG, MD 21005</li> <li>• Roye-Williams Elementary School, Havre de Grace, MD 21078</li> <li>• Hall's Cross Roads Elementary, Aberdeen, MD 21001</li> <li>• Churchville Elementary School, Churchville, MD 21028</li> </ul>
	Baltimore City	<ul style="list-style-type: none"> <li>• Moravia Park Elementary, Baltimore, MD 21206</li> </ul>
<b>November School Visits</b>	Baltimore County	<ul style="list-style-type: none"> <li>• Halstead Academy, Baltimore, MD 21234</li> <li>• Carver Center for the Arts HS, Baltimore, MD 21204</li> <li>• Jemicy School, Owings Mills, MD 21117</li> </ul>
	Harford County	<ul style="list-style-type: none"> <li>• Hall's Cross Roads Elementary, Aberdeen, MD 21001</li> <li>• Southampton MS, Bel Air, MD 21014</li> <li>• Youth's Benefit Elementary, Fallston, MD 21047</li> </ul>
	Baltimore City	<ul style="list-style-type: none"> <li>• Moravia Park Elementary, Baltimore, MD 21206</li> </ul>
	Cecil County	<ul style="list-style-type: none"> <li>• Tome School, NorthEast, MD 21901</li> </ul>

Stop in and join us if you have time!! If you have any questions or want to assist with an event, please feel free to contact us at ([mdchem@mdchem.org](mailto:mdchem@mdchem.org)).

### National Chemistry Week Poster Contest:

As part of every annual celebration of National Chemistry Week (NCW), the American Chemical Society (ACS) sponsors a poster contest for students in Kindergarten – Grade 12. This year, students are invited to create a poster that celebrates the 2009 theme “Chemistry – It’s Elemental”, which commemorates the 140<sup>th</sup> anniversary of Mendeleev’s Periodic Table of Elements. This is a wonderful opportunity to investigate and appreciate the discovery and use of the elements in every aspect of our lives.

Dr. Shirish Shah is the POC for the Maryland ACS contest - 410-323-0803 (H) or by email at [dr.shah@juno.com](mailto:dr.shah@juno.com). Posters must be received by Saturday, October 17<sup>th</sup> in order to be considered for the National Contest. Contest guidelines can be found at: ([http://portal.acs.org/portal/PublicWebSite/education/outreach/ncw/studenteducators/CNBP\\_022328](http://portal.acs.org/portal/PublicWebSite/education/outreach/ncw/studenteducators/CNBP_022328))

## Terrific Science

Don't have time to come out to one of our National Chemistry Week events with your elementary or middle school aged child or grandchild? Mickey Sarquis (winner of the 2008 Helen M. Free Award for Public Outreach) and the wonderful team at Terrific Science have free activities available for download on their website (<http://www.terrificscience.com/>). It's a great resource (besides the National ACS publication 'Celebrating Chemistry') for you to do some hands-on experiments at home and/or have some stimulating conversations. Check it out!

## RE-SEED (Retirees Enhancing Science Education through Experiments and Demonstrations)

Since 1991, the RE-SEED program at Northeastern University has trained retired scientists and engineers and others with backgrounds in science or mathematics to provide classroom assistance to K-12 science teachers. There are over eighty volunteers assisting science teachers in the greater Boston area. After taking part in a comprehensive training program, participants typically assist in school classrooms one day a week for most of the academic year. The RE-SEED Program is part of the Center for STEM (science, technology, engineering and mathematics) Education at Northeastern University. Other programs focus on science teacher training and student assistance in science learning.

Northeastern University has assisted in the formation of more than fourteen regional volunteer centers where over 600 RE-SEED volunteers have worked in schools in about 100 communities throughout the country, offering approximately 600,000 hours of their time. You can learn more about RE-SEED by visiting their website, [www.reseed.neu.edu](http://www.reseed.neu.edu) or by calling Paul Conroy at 617-373-8388 or by email to [pa.conroy@neu.edu](mailto:pa.conroy@neu.edu).

The Center for STEM Education, Northeastern University, 1135 Tremont St., Suite 940 RP, Boston, MA 02120

## News from the National meeting:

**ACS is now using Twitter.** To get news on upcoming events, ask questions to the webinar presenter in advance, or to join group colleagues twittering, please search or include **#acsimp hashtag** in your twitter text.

**Show your support to professionals in the chemical industry.** ACS is pleased to be hosting a series of monthly Teleconferences and Webinars to address current issues and topics of importance to bio/chemical industry professionals and members. Sponsorship opportunities are available. To learn more about how we can help you reach bio/chemical industry professionals, please contact Samuel Toba at [imp@acs.org](mailto:imp@acs.org) or call 202-872-4447.





## October Historical Events In Chemistry

By: Leopold May

- October 1, 1940 Air Products and Chemicals, Inc. was incorporated on this day.
- October 3, 1904 Charles J. Pedersen, who was born on this date, found that alkali metal ions could be bound by crown ethers in a rigid layered structure. In 1987, he shared the Nobel Prize in Chemistry [Jean-Marie Lehn](#) and [Donald J. Cram](#) for their development and use of molecules with structure-specific interactions of high selectivity.
- October 4, 1918 Kenichi Fukui, who developed the frontier orbital theory of reactivity, was born on this day. He shared the Nobel Prize with Ronald Hoffmann in 1981 for their theories, developed independently, concerning the course of chemical reactions.
- October 6, 1897 Florence B. Seibert studied the biochemistry of tuberculosis and was awarded Garvin Medal in 1942. She was born on this date.
- October 8, 1918 Jens C. Skou, discovered the enzyme that promotes directed (vectored) transport of substances through cell membrane, Na<sup>+</sup>, K<sup>+</sup>-ATPase; Nobel Prize (1997) for the first discovery of an ion-transporting enzyme, Na<sup>+</sup>, K<sup>+</sup>-ATPase" with P. D. Boyer & J. Walker for elucidation of the enzymatic mechanism underlying the synthesis of adenosine triphosphate (ATP).
- October 11, 1884 One hundred and twenty-five years ago on this date, Frederich Bergius was born. He researched chemical reactions at high pressure, conversion of coal into oil, hydrolysis of wood to sugar and cattle feed. He shared the Nobel Prize in Chemistry in 1931 with Carl Bosch in recognition of their contributions to the invention and development of chemical high-pressure methods.
- October 14, 1886 Jacobus H. Van't Hoff presented law showing that osmotic pressure of a dilute solution obeys Boyle's, Charles's & Avogadro's Laws, & that  $pV = RT$  before Swedish Academy of Sciences.
- October 17, 1890 Unocal was incorporated as Union Oil Co. of California on this date.
- October 19, 1909 One hundred years ago on this date, Maguerite Perey was born. She discovered francium in 1939.
- October 25, 1934 Seventy-five years ago, Otto Folin died. He was a pioneer in clinical chemistry and did research in the systematic development of "micromethods, use of colorimetry in biochemistry using the Duboscq colorimeter, and the use of an enzyme for analytical purposes, urease to measure urea. Vintila Ciocalteu and he developed the "Phenol Reagent" for use in protein determinations. He was born on April 4, 1867
- October 23, Any Year [Mole Day](#), 6.02 a.m. through 6.02 p.m. (Mole time); Mole Moment: 50.453 s after 6.42 p.m.
- October 30, 1895 Dickinson W. Richards, Jr., who was born on this date, made the first clinical use of cardiac catheterization. He shared the Nobel Prize in Physiology or Medicine in 1956 with [André Frédéric Cournand](#) and [Werner Forssmann](#) for their discoveries concerning heart catheterization and pathological changes in the circulatory system.

For more historical facts on chemistry, visit Dr. May's website at <http://faculty.cua.edu/may/>.

An informal association, Society for the Propagation of the Music of the Chemist-Composers, has been formed to publicize the music of chemist-composers. For information, see <http://faculty.cua.edu/may/SPMCC.htm>.

## Job Hunting Corner

### Teaching Postion - McDaniel College

McDaniel College seeks an Adjunct Instructor to teach a Physical Chemistry course with lab for the 2010 Spring semester (1/25-5/7). Topics covered are basic thermodynamics and kinetics. An evening schedule for lecture and lab is possible. Interested applicants should send resume and transcript to: [rhsmith@mcdaniel.edu](mailto:rhsmith@mcdaniel.edu) (Richard H. Smith, Jr., Chemistry Dept., McDaniel College, 2 College Hill, Westminster, MD 21157). McDaniel College is an AA/EEOC institution.

### Job Hunting?

We don't always have job posts in the Chesapeake Chemist. But if you have a position available locally, you are welcome to send them to us for posting in the Chesapeake Chemist. If you are job hunting, remember to put your membership to work by using the ACS job bank: (ACS Careers: [www.acs.org/careers](http://www.acs.org/careers)).

### ACS offers special benefits for unemployed members

During these tough economic times it's more important than ever to belong to the American Chemical Society. Unemployed members can tap into a host of valuable benefits and services that help them get back in the workforce. And, members in good standing may qualify for an unemployed member dues waiver, allowing them to renew their memberships and keep their member benefits at no cost. Contact ACS at [service@acs.org](mailto:service@acs.org), 800-333-9511 or 614-447-3671 for complete details.

Other valuable benefits that help ACS member get back in the workforce include:

- Free registration at ACS National Meetings and registration fees at Regional Meetings of just \$25. Meetings offer ACS Career Fairs with on-site interviews.
- Special discounts for ACS/Harvard courses, ACS ProSpectives and Short Courses, and the ACS Leadership Development System.
- Membership in the ACS Network, your online resource to connect and communicate with friends, colleagues, and potential employers
- Free Guidance from ACS Career Consultants - ACS mentors offer resume reviews, job search strategies, and interview tips that make you stand out from the rest.
- Free access to InterviewStream, an online tool that will sharpen your interview skills
- Members-only access to the ACS Salary comparator.
- And more!

Contact ACS customer service today at [service@acs.org](mailto:service@acs.org), 800-333-9511 or 614-447-3671 today and let us know how we can help.

### Call for Volunteers for Committee Positions

Interested in how your dues get used and want to work on interesting member programs/projects? If you want to get involved with the Maryland Section Executive Committee and/or with section activities, we want to hear from YOU! The Maryland ACS Executive Committee meets 4 times during the year to discuss and plan activities. Please feel free to contact the chair, vice-chair, or chair-elect via e-mail to get more information on various areas/activities that you are interested in or that we would like to start or expand in the future. The amount of time to commit would be up to you but might be around 2 hours per month, depending on the activity. We are always looking for individuals with budget/financial, editing, and planning skills.

Our Section is always looking for volunteers for our various committees. We are currently looking to fill positions for:

- Archivist
- Young Chemist Chair
- Women's Chemist Chair

Please contact **Walter Roy** ([Walter\\_Roy@mccormick.com](mailto:Walter_Roy@mccormick.com), 410-771-7886) or **Alvin Kennedy** ([alvin.kennedy@gmail.com](mailto:alvin.kennedy@gmail.com), 443-885-3794)



Johns Hopkins University Chemistry Department  
The Ephraim and Wilma Shaw Roseman Colloquium  
Series

Fall 2009– Tuesdays, 4:15 pm  
Remsen Hall 233

Oct 13  
Prof John Toscano

*"Structural Dynamics from NMR Spectroscopy of Weakly Aligned Proteins"*  
Joel Tolman – Johns Hopkins University

Oct 20  
Prof John Toscano

*"Synthesis, Photochemistry, Electrochemistry, and Computation:  
First Forays Toward Photochromic Photooxidants"*  
Jason Gillmore – Hope College

Oct 27  
Prof Gerald Meyer

*"Photoacoustic Calorimetry in Chemistry and Biology: Listening to What  
Molecules Have to Say"*  
Randy W. Larsen – University of South Florida

Nov 3  
Prof Kit Bowen

*"Scanning Magnetic Imaging and Magnetic Resonance Imaging with  
Atomic Magnetometers"*  
Shoujun Xu – University of Houston

Nov 10  
Prof J.D. Tovar

*"Exploring  $\beta$ -Sheet Structure and Interactions with Chemical Model Systems"*  
James S. Nowick – University of California, Irvine

Nov 17  
Prof Justine Roth

*"Molecular Determinants Governing Oxylipin Biosynthesis in Fatty Acid Oxygenases"*  
Michael G. Malkowski – Hauptman-Woodard Medical Research Institute

For more information contact Rosalie Elder, 410-516-7432

<http://chemistry.jhu.edu/colloquia.html>

The schedule can be downloaded in pdf or html format

### REMINDER: Receiving the Chesapeake Chemist

Hopefully, if you are reading the Chesapeake Chemist this month, you are receiving it via e-mail from us. We went to electronic only mailings to our MD ACS membership in October 2006. Please remember that we are dependant on the National ACS records for your correct, current e-mail.

**Changing your e-mail address? Moving out of the MD ACS area?** E-mail changes can be updated either by:

- E-mailing us at [mdchem@mdchem.org](mailto:mdchem@mdchem.org) – give us your member #, full name, and e-mail changes and we can ensure that your records are updated with National ACS.
- **Contacting the National ACS membership division: 800-333-9511 (US only) or [service@acs.org](mailto:service@acs.org)**

To ensure that you receive the Chesapeake Chemist, please add the MD ACS e-mail ([mdchem@mdchem.org](mailto:mdchem@mdchem.org)) to your accepted e-mail address list IF you have a spam filter.

If you are a member who currently doesn't receive the Maryland ACS Chesapeake Chemist but download it from our website, it is possible that National ACS does not have your e-mail address on file. If you want to receive the Chesapeake Chemist via e-mail, please e-mail us at [mdchem@mdchem.org](mailto:mdchem@mdchem.org) – give us your member #, full name, and e-mail address and we can ensure that your records are updated with National ACS.

The current edition and previous editions of the Chesapeake Chemist can ALWAYS be obtained via our website: <http://mdchem.org> – please see the Newsletter Archive link on the right-hand side of the website.

## Get Involved, Stay Involved

As you know, the American Chemical Society offers many ways for its members and non-members to get involved at the local, regional and national levels. There are opportunities for everyone, whether you are a student, or just starting your career, or a seasoned professional. Are you interested in getting involved, but don't know where to start? Are you already involved with one or more ACS activities but need help finding resources? Please visit (<http://www.acs.org/getinvolved>) to find a streamlined list of links of helpful procedures and resources specifically geared towards your area of interest.

Alternately, you can contact the Maryland ACS Section directly... Like working with students? Have a talent for encouraging students in science? Have ideas for outreach events? Sign up for our volunteer news. Contact us at [mdchem@mdchem.org](mailto:mdchem@mdchem.org).



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